NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

June 29, 1998

Burlington Resources Oil & Gas Company
P. O. Box 4289
Farmington, New Mexico 87499-4289
Attention: Peggy Bradfield

Administrative Order NSL-110-A

Dear Ms. Bradfield:

Reference is made to your application dated June 9, 1998 for an exception to the well location requirements provided within the "*Special Rules and Regulations for the Blanco-Mesaverde Pool*," as promulgated by Division Order No. R-10987, for a non-standard Blanco-Mesaverde infill gas well location in an existing standard 296.82-acre stand-up gas spacing and proration unit for the Blanco-Mesaverde Pool comprising Lots 1, 2, 7, 8, 9, 10, 15, and 16 (E/2 equivalent) of Section 25, Township 32 North, Range 10 West, NMPM, San Juan County, New Mexico. This unit is currently dedicated to Burlington Resources Oil & Gas Company's San Juan "32-9" Unit Well No. 50 (**API No. 30-045-11293**), located at a previously approved unorthodox gas well location (see Division Administrative Order NSL-110, dated July 8, 1957) 550 feet from the North line and 1150 feet from the East line (Lot 1/Unit A) of Section 25.

The application has been duly filed under the provisions of Rules 104.F and 605.B of the Rules and Regulations of the New Mexico Oil Conservation Division ("Division").

By the authority granted me under the provisions of Division Rule 104.F(2), the following described well to be drilled at an unorthodox infill gas well location in Section 25 is hereby approved:

San Juan "32-9" Unit Well No. 50-A
1415' FSL & 590' FEL (Lot 9/Unit I)

Further, both of the aforementioned San Juan "32-9" Unit Well Nos. 50 and 50-A and existing gas spacing and proration unit will be subject to all existing rules, regulations, policies, and procedures applicable to prorated gas pools in Northwest, New Mexico.

Sincerely,

Lori Wrotenbery

Lori Wrotenbery
Director

LW/MES/kv

cc: New Mexico Oil Conservation Division - Aztec
U. S. Bureau of Land Management - Farmington
File: NSL-110

BURLINGTON RESOURCES

SAN JUAN DIVISION

June 9, 1998

HAND DELIVERED

Ms. Lori Wrotenbery, Director
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Re: San Juan 32-9 Unit #50A
1415'FSL, 590'FEL, Section 25, T-32-N, R-10-W, San Juan County, NM
30-045-not assigned

Dear Ms. Wrotenbery:

Burlington Resources is applying for administrative approval of an unorthodox gas well location for the Blanco Mesa Verde pool. This application for the referenced location is for topographic and archaeological reasons, and at the request of the Bureau of Land Management.

Production from the Blanco Mesa Verde pool is to be included in a standard 320 acre gas spacing and proration unit comprising of the east half (E/2) of Section 25 which is currently dedicated to the San Juan 32-9 Unit #50 (30-045-11293) located at 550'FNL, 1150'FEL of Section 25. Meridian Oil (Burlington Resources) assumed operatorship of this well effective November 1989.

The following attachments are for your review:
1. Application for Permit to Drill.
2. Completed C-102 at referenced location.
3. Offset operators/owners plat.
4. 7.5 minute topographic map, and enlargement of the map to define topographic features.

We appreciate your earliest consideration of this application.

Sincerely,

Peggy Bradfield
Regulatory/Compliance Administrator

xc: NMOCD - Aztec District Office
Bureau of Land Management - Farmington District Office

3535 East 30th St., 87402-8801, P.O. Box 4289, Farmington, New Mexico 87499-4289, Telephone 505-326-9700, Fax 505-326-9833

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED
JUN 9 1998
OIL CON. DIV.
DIST. 3

1a. **Type of Work**
DRILL

1b. **Type of Well**
GAS

5. **Lease Number**
SF-078507
Unit Reporting Number

6. **If Indian, All. or Tribe**

2. **Operator**
BURLINGTON RESOURCES Oil & Gas Company

7. **Unit Agreement Name**
San Juan 32-9 Unit

3. **Address & Phone No. of Operator**
PO Box 4289, Farmington, NM 87499

(505) 326-9700

8. **Farm or Lease Name**
San Juan 32-9 Unit

9. **Well Number**
50A

4. **Location of Well**
1415'FSL, 590'FEL

Latitude 36° 57.1, Longitude 107° 49.7

10. **Field, Pool, Wildcat**
Blanco Mesa Verde

11. **Sec., Twn, Rge, Mer. (NMPM)**
Sec 25,T-32-N,R-10-W

API # 30-045-

14. **Distance in Miles from Nearest Town**
4 miles to Cedar Hill

12. **County** San Juan

13. **State** NM

15. **Distance from Proposed Location to Nearest Property or Lease Line**
590'

16. **Acres in Lease**

17. **Acres Assigned to Well**
320 E/2

18. **Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease**
1600'

19. **Proposed Depth**
6146'

20. **Rotary or Cable Tools**
Rotary

21. **Elevations (DF, FT, GR, Etc.)**
6593'GR

22. **Approx. Date Work will Start**

23. **Proposed Casing and Cementing Program**
See Operations Plan attached

24. **Authorized by:** _____
Regulatory/Compliance Administrator

5-9-98
Date

PERMIT NO. _____ **APPROVAL DATE** _____

APPROVED BY _____ **TITLE** _____ **DATE** _____

Archaeological Report to be submitted
Threatened and Endangered Species Report to be submitted
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer DD, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Revised February
Instruction
Submit to Appropriate Distr
State Lease -
Fee Lease -

☐ AMENDED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹API Number	²Pool Code	³Pool Name
30-045-	72319	Blanco Mesaverde

⁴Property Code	⁵Property Name	⁶Well N
7473	SAN JUAN 32-9 UNIT	50A

⁷OGRID No.	⁸Operator Name	⁹Eleva
14538	BURLINGTON RESOURCES OIL & GAS COMPANY	659

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	
I	25	32N	10W		1415	SOUTH	590	EAST	SA

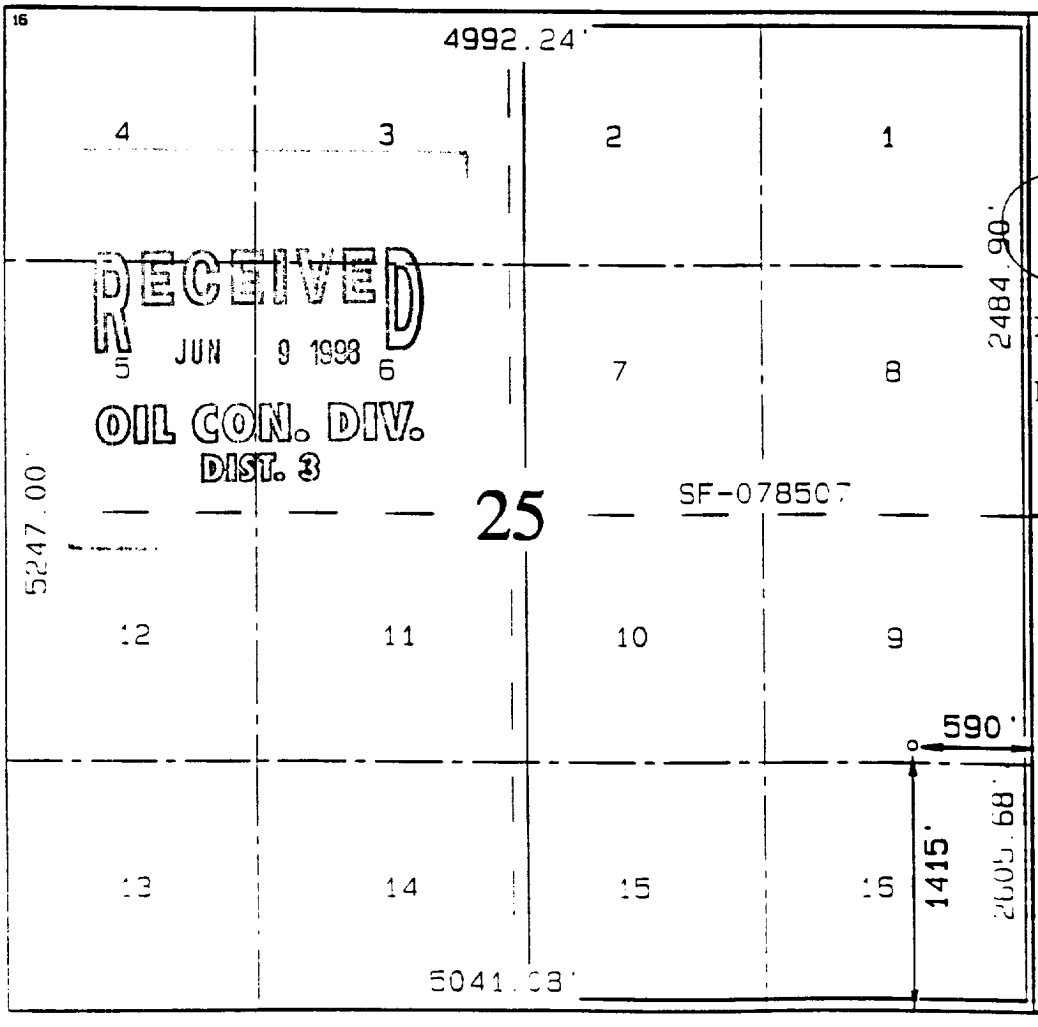
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line

¹²Dedicated Acres	¹³Joint or Infill	¹⁴Consolidation Code	¹⁵Order No.
E/320			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOL
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16



RECEIVED
JUN 9 1998
OIL CON. DIV.
DIST. 3

¹⁷ OPERATOR CERTIFI

I hereby certify that the information conta
true and complete to the best of my knowle

Signature

Peggy Bradfield
Printed Name

Regulatory Adminis
Title

5-9-98
Date

¹⁸ SURVEYOR CERTIFI

I hereby certify that the well location sh
was plotted from field notes of actual sur
or under my supervision, and that the same
correct to the best of my belief.

MARCH 17, 1998
Date of Survey

Signature and Seal of Professional Surveyor

NEALE C. EDWARDS
NEW MEXICO
6857
REGISTERED PROFESSIONAL SURVEYOR

6857
Certificate Number

OPERATIONS PLAN

Well Name: San Juan 32-9 Unit #50A
Location: 1415'FSL, 590'FEL Section 25, T-32-N, R-10-W
San Juan County, New Mexico
Latitude 36° 57.1, Longitude 107° 49.7
Formation: Blanco Mesa Verde
Elevation: 6593'GL

Formation Tops:	***Top***	***Bottom***	***Contents***
Surface	San Jose	1978'	aquifer
Ojo Alamo	1978'	2088'	aquifer
Kirtland	2088'	2821'	
Fruitland	2821'	3441'	
Pictured Cliffs	3441'	3583'	gas
Lewis	3583'	4164'	gas
Intermediate TD	**3683'**		
Huerfanito Bentonite	4164'	4606'	
Chacra	4606'	5383'	
Massive Cliff House	5383'	5428'	gas
Menefee	5428'	5746'	gas
Massive Point Lookout	5746'	6137'	gas
Mancos Shale	6137'		
Total Depth	**6146'**		

Logging Program:
Cased hole logging - Gamma Ray Neutron
Coring/DST - none

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 200'	Spud	8.4-9.0	40-50	no control
200-3683'	LSND	8.4-9.0	30-60	no control
3683-6146'	Gas/Mist	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program (as listed, the equivalent, or better):

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3683'	7"	20.0#	J-55
6 1/4"	3583' - 6146'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 6146'	2 3/8"	4.7#	J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

BOP Specifications, Wellhead and Tests (cont'd):

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 2 3/8" x 2000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drill crew.
- All BOP tests & drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing - cement with 163 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -

Lead w/307 sx Class "B" w/3% econolite, 10# gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% gel, 2% calcium chloride, 0.5# flocele/sx, and 10# gilsonite/sx (989 cu.ft. of slurry, 75% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 2088'. Two turbolating centralizers at the base of the Ojo Alamo at 2088'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Liner -
Cement to circulate liner top. Lead with 129 sx 65/35 Class "B" poz w/6% gel, 5# gilsonite/sx and 1/4# flocele/sx. Tail with 150 sx 50/50 Class "B" Poz w/1/4# flocele/sx, 5# gilsonite/sx and 0.3% fluid loss additive (438 cu.ft., 75% excess to circulate liner top). WOC a minimum of 18 hrs prior to completing.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

- If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.
- The pipe will be rotated and/or reciprocated, if hole conditions permit.

Special Drilling Operations (Gas/Mist Drilling):

The following equipment will be operational while gas/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- The Mesa Verde formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:
  Fruitland Coal 400 psi
  Pictured Cliffs 750 psi
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The east half of the section is dedicated to the Mesa Verde.
- This gas is dedicated.

_____ _____

Drilling Engineer Date

BURLINGTON RESOURCES

San Juan 32-9 Unit #50A
Multi-Point Surface Use Plan

1. Existing Roads - Refer to Map No. 1. Existing roads used to access the proposed location will be properly maintained for the duration of the project. Bureau of Land Management right-of-way has been applied for as shown on Map No. 1.

2. Planned Access Road - Refer to Map No. 1. The required new access road is shown on Map No. 1. The gradient, shoulder, crowning and other design elements will meet or exceed those specified by the responsible government agency. The new access road surface will not exceed twenty feet (20') in width. No additional turnarounds or turnouts will be required. Upon completion of the project, the access road will be adequately drained to control soil erosion. Approximately 1500' of access road will be constructed. Pipelines are indicated on Map No. 1A.

3. Location of Existing Wells - Refer to Map No. 1A.

4. Location of Existing and/or Proposed Facilities if Well is Productive -

   a. On the Well Pad - Refer to Plat No. 1, anticipated production facilities plat.

   b. Off the Well Pad - Anticipated pipeline facilities as shown on the attached plat from El Paso Field Services.

5. Location and Type of Water Supply - Water will be hauled by truck for the proposed project and will be obtained from Pump Wash Water Hole #2 located in SW/4 Section 36, T-31-N, R-9-W, New Mexico.

6. Source of Construction Materials - If construction materials are required for the proposed project, such materials will be obtained from a commercial quarry.

7. Methods of Handling Waste Materials - All garbage and trash materials will be removed from the site for proper disposal. A portable toilet will be provided for human waste and serviced in a proper manner. If liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying waste materials into the watershed. Reserve pits will be lined as needed with either 12 mil bio-degradable plastic liner or a bentonite liner. All earthen pits will be so constructed as to prevent leakage from occurring; no earthen pit will be located on natural drainage. Generation of hazardous waste is not anticipated. Federal regulations will be adhered to regarding handling and disposal of such waste if so generated.

8. Ancillary Facilities - None anticipated.

9. Wellsite Layout - Refer to the location diagram and to the wellsite cut and fill diagram (Figure No. 4). The blow pit will be constructed with a 2'/160' grade to allow positive drainage to the reserve pit and prevent standing liquids in the blow pit.

10. Plans for Restoration of the Surface - After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operations will be performed during the time period set forth by the responsible government agency. The permanent location facilities will be painted as designated by the responsible government agency.

11. Surface Ownership – Bureau of Land Management

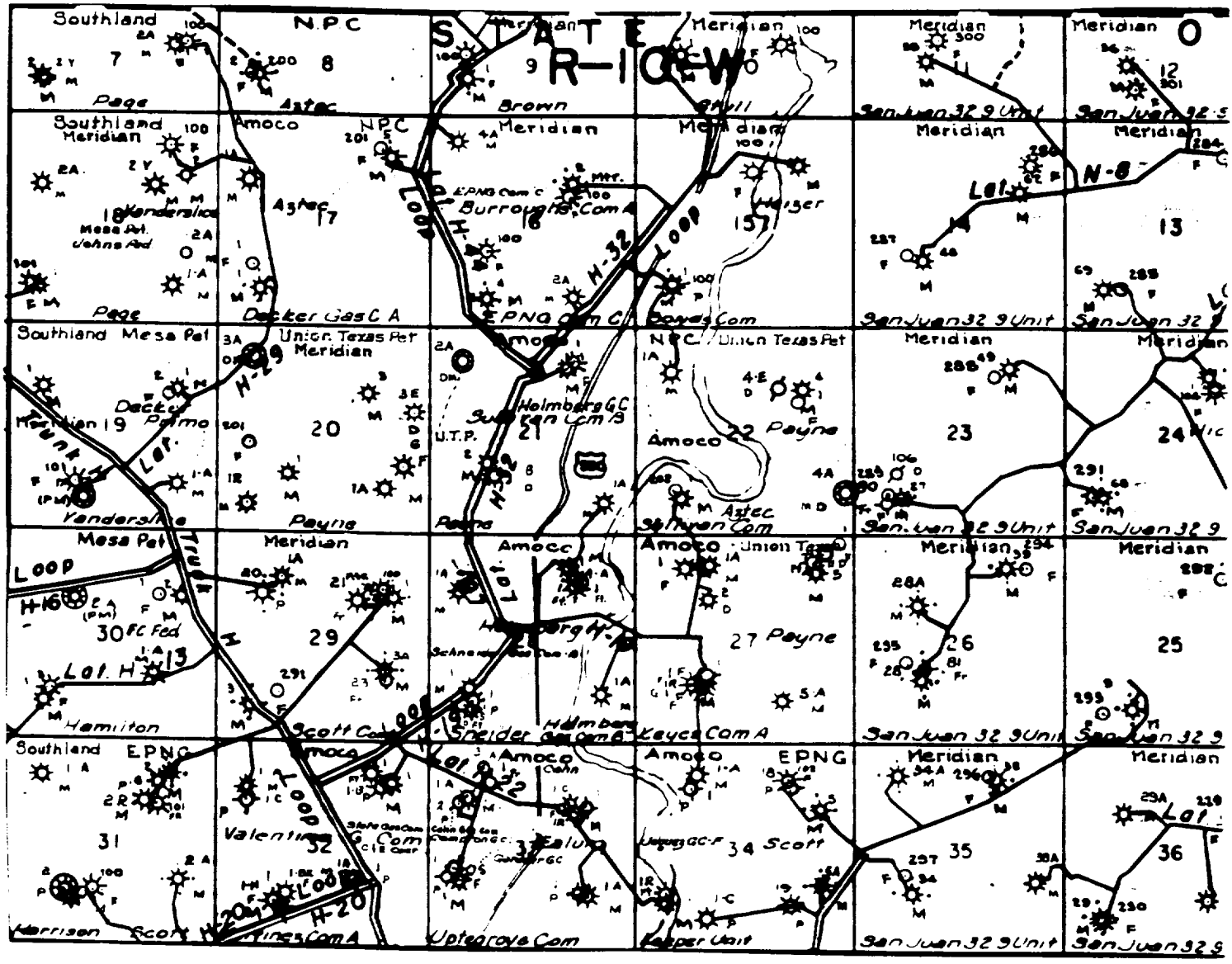
12. Other Information - Environmental stipulations as outlined by the responsible government agency will be adhered to. Refer to the archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.

13. Operator's Representative and Certification - Burlington Resources Oil & Gas Company Regional Drilling Manager, Post Office Box 4289, Farmington, NM 87499, telephone (505) 326-9700. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan, are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Burlington Resources Oil and Gas Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Peggy Bradfield 5-9-98

Regulatory/Compliance Administrator Date

pb



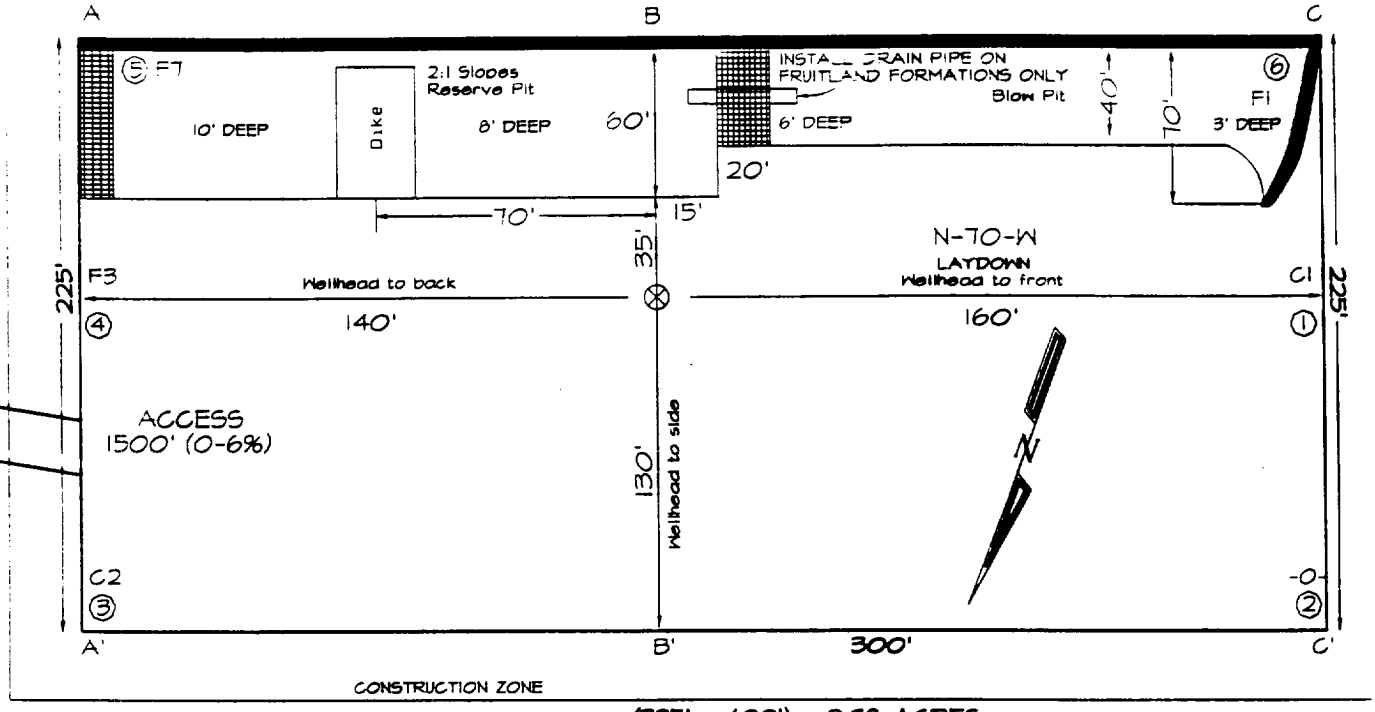
MERIDIAN OIL INC.
Pipeline Map
T-32-N, R-10-W
San Juan County, New Mexico

San Juan 32-9 Unit #50A
Map 1A

3/91 adw/mjb

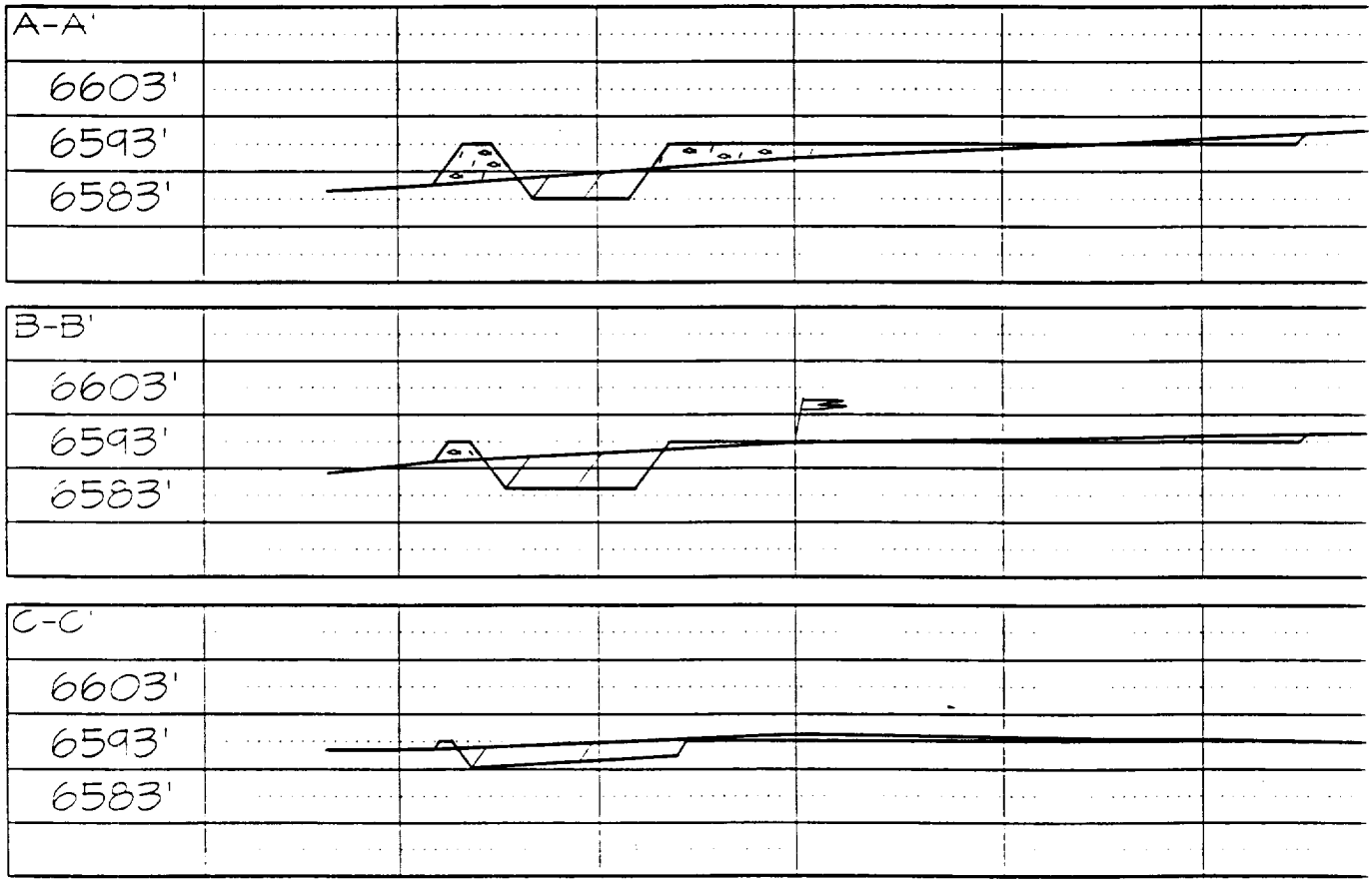
PLAT #1

BURLINGTON RESOURCES OIL & GAS COMPANY
SAN JUAN 32-9 UNIT #50A, 1415' FSL & 590' FEL
SECTION 25, T32N, R10W, NMPM, SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6593' DATE: MARCH 17, 1998



225' x 300' (325' x 400') = 2.98 ACRES

Reserve Pit Dike: to be 8' above Deep side (overflow - 3' wide and 1' above shallow side).
Blow Pit: overflow pipe halfway between top and bottom and to extend over plastic liner and into blo



Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or on well pad and/or access road at least two (2) working days prior to construction

BURLINGTON RESOURCES OIL AND GAS COMPANY

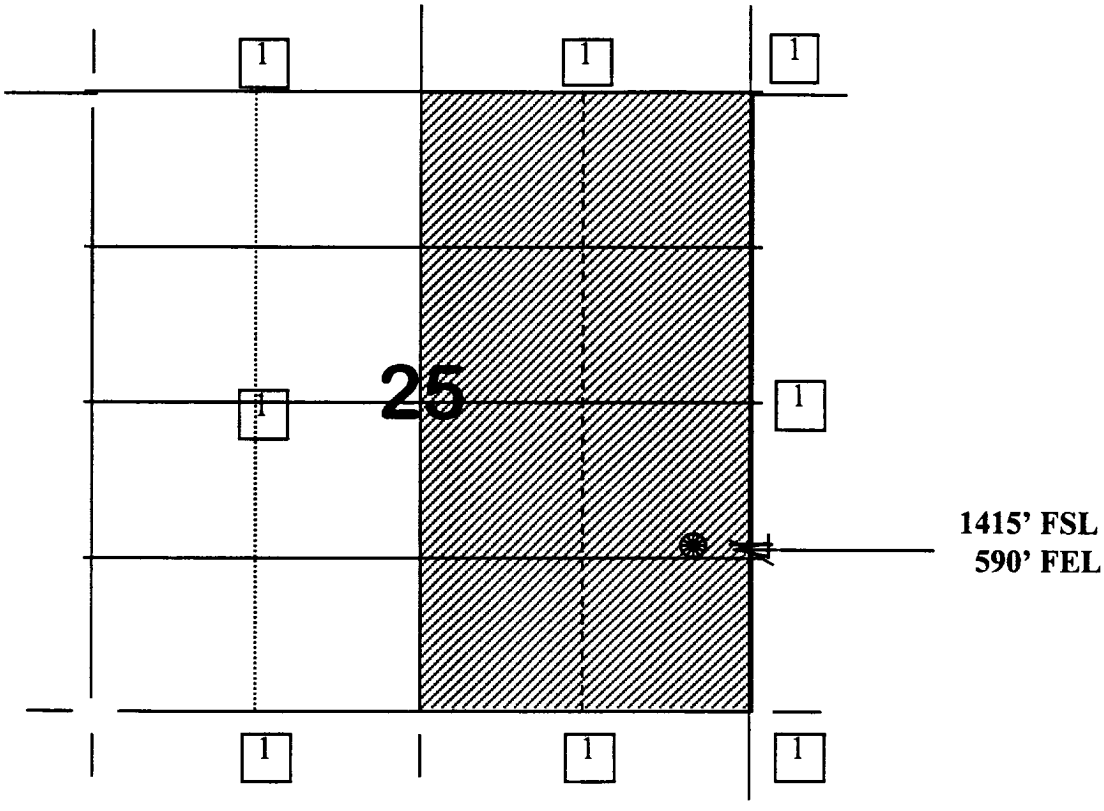
San Juan 32-9 Unit #50A

OFFSET OPERATOR/OWNER PLAT

Nonstandard Location

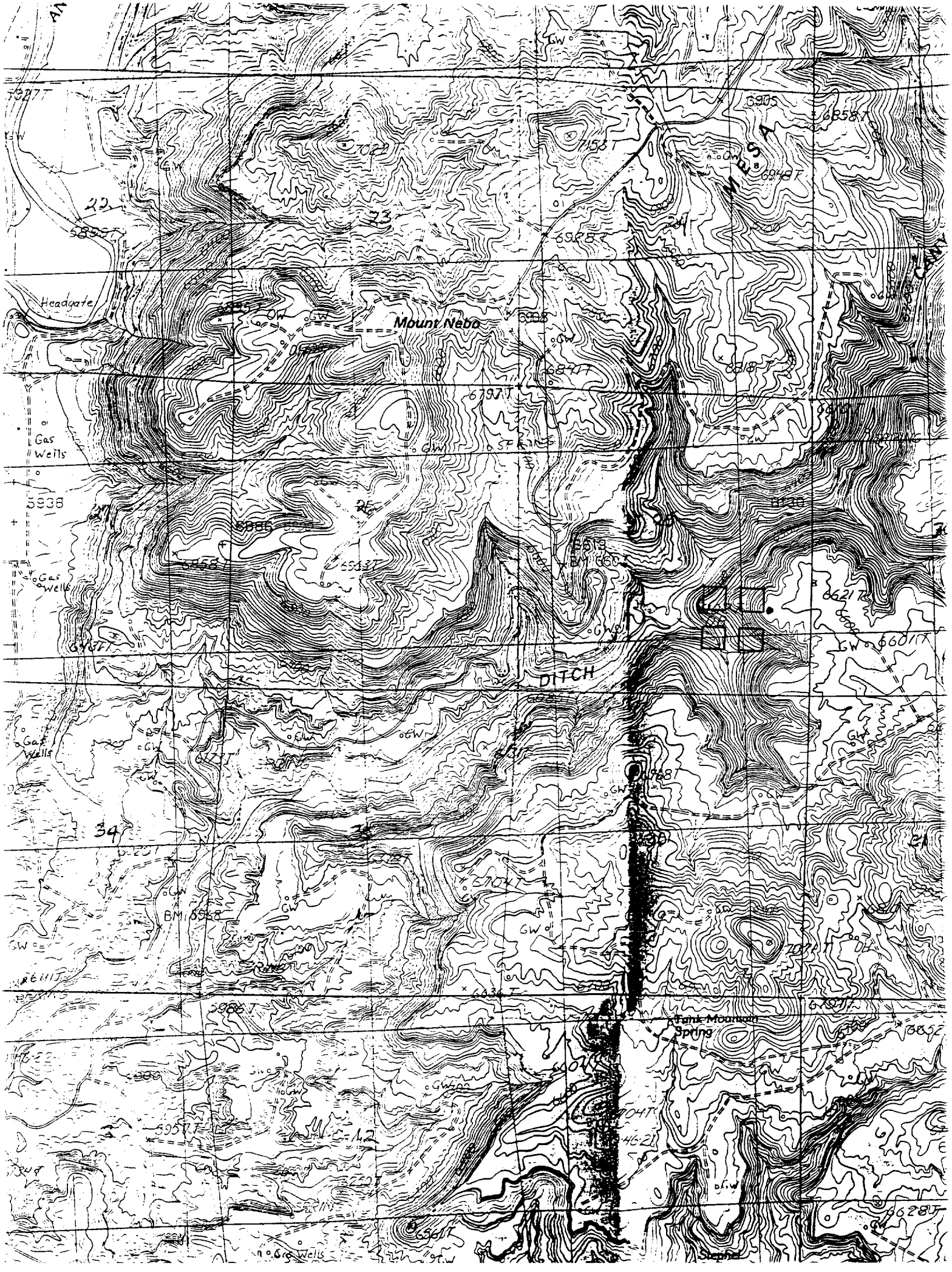
Mesaverde Formation Well

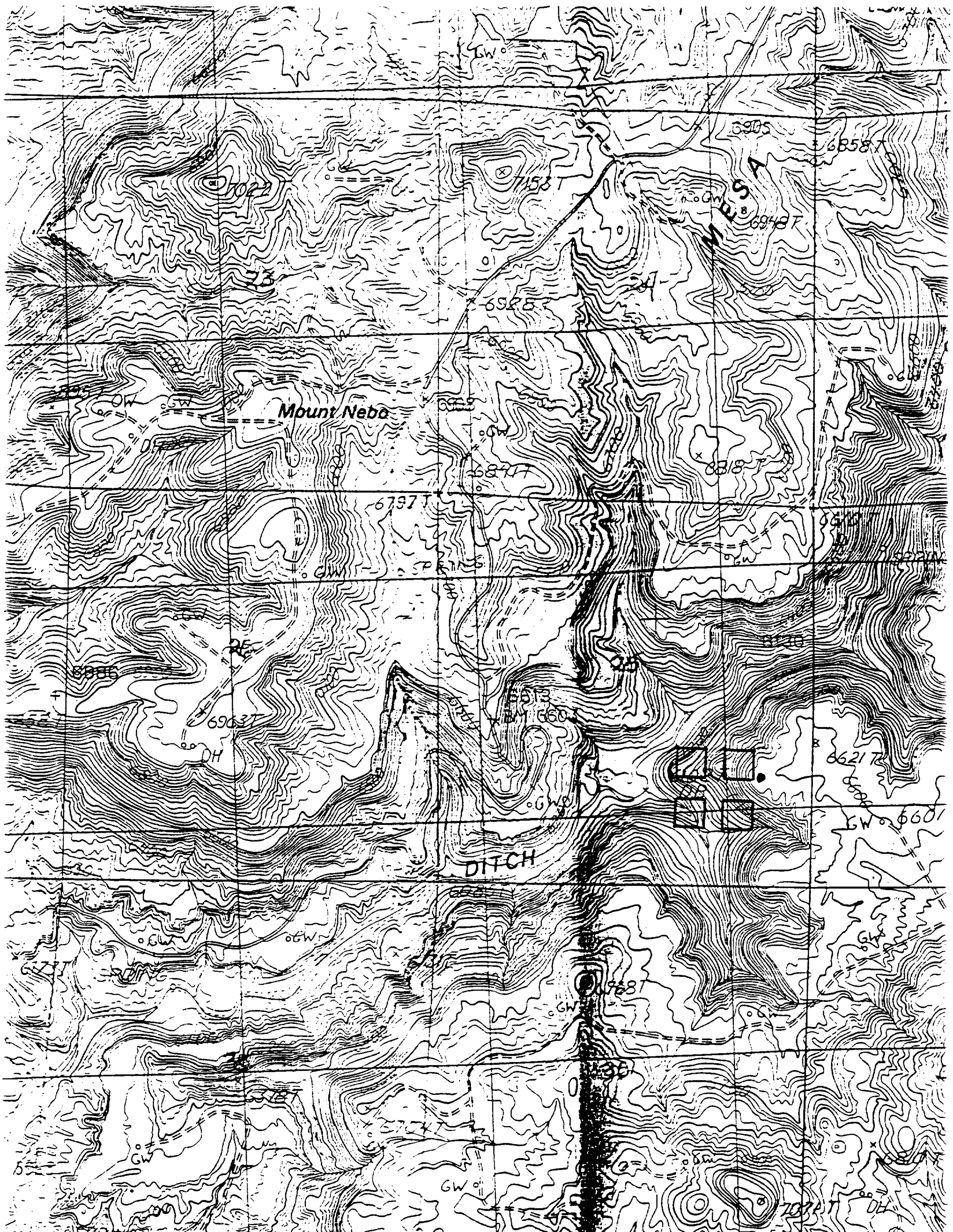
Township 32 North, Range 10 West



1) Burlington Resources

DB


Mount Nebo
Headgate
Gas Wells
DITCH
Tank Mountain Spring
22
23
34
42


MESA
Mount Nebo
DITCH